

# **CSIRC REPORTS**

Monthly Analytic Synopsis

November FY18





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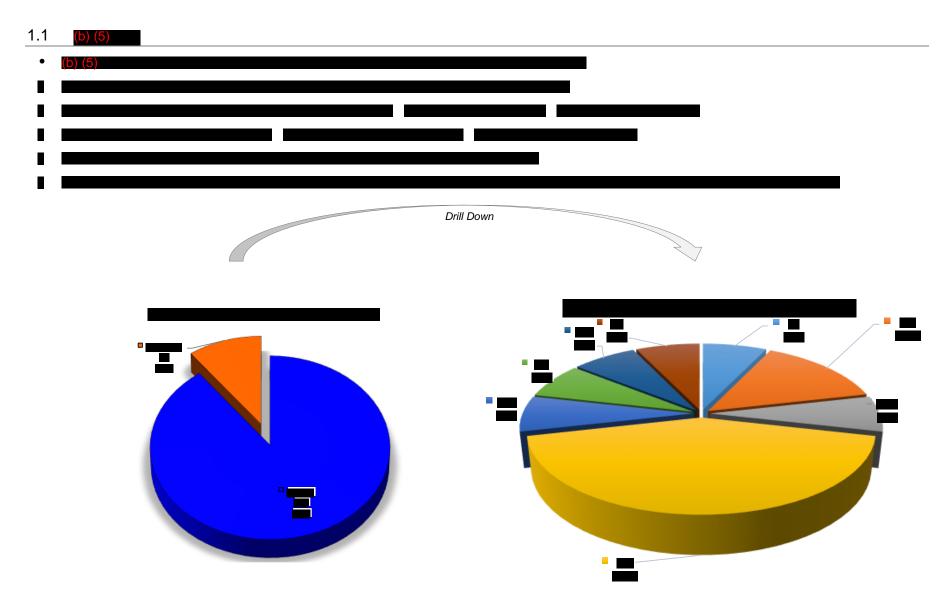
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# **Revision Log**

Date	Version No.	Description	Author	Reviewer	Review Date
08/05/2013	1.0	Release Version	(b) (6)		08/02/2013
08/05/2014	2.0	Version 2.0	(b) (6)		08/01/2014
10/05/2015	3.0	Version 3.0	(b) (6)		10/02/2015
03/07/2017	4.0	Version 4.0	(b) (6)		03/03/2017



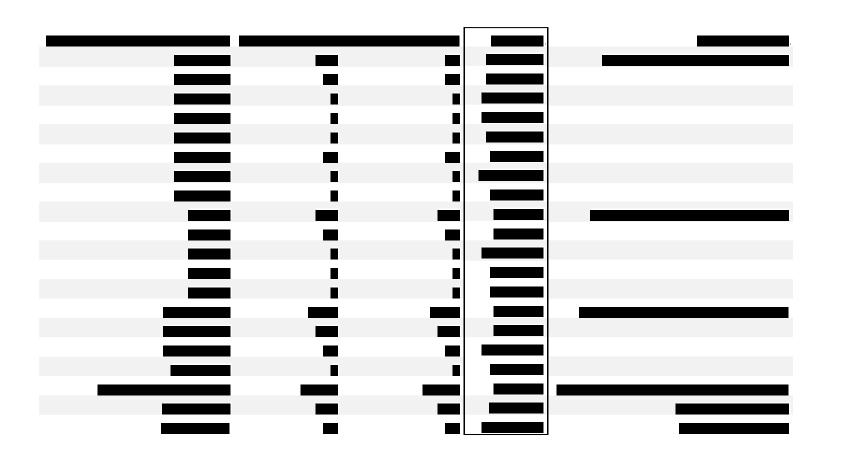
# 1 Executive Summary





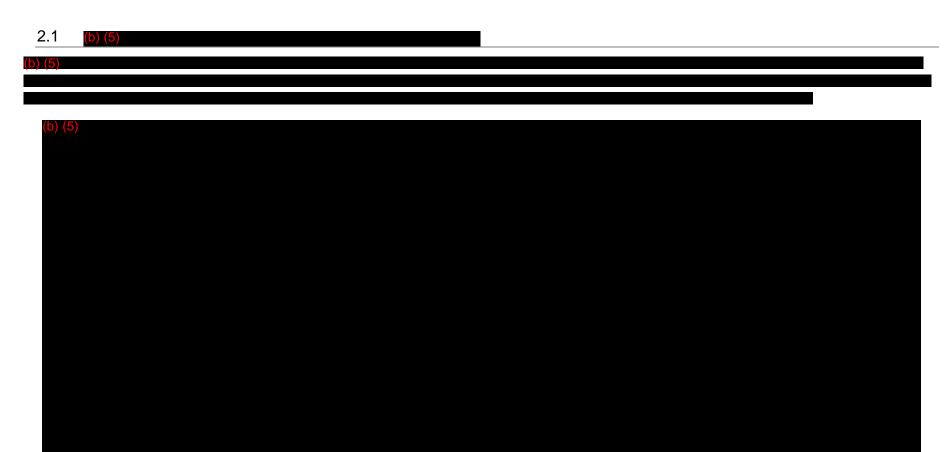
1.2 **(b) (5)** 

(b) (5)

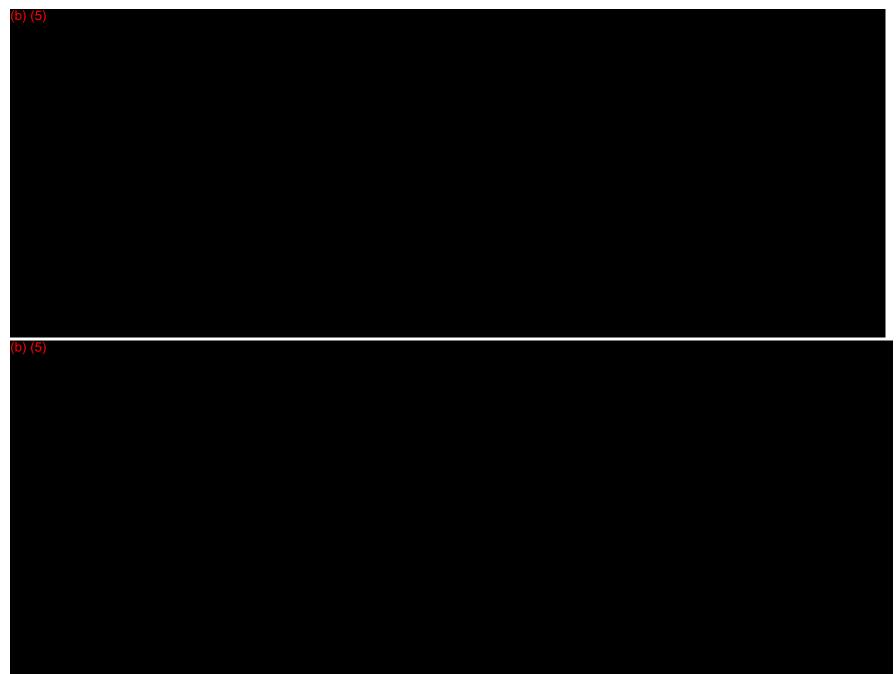




### **2 BigFix Based Reports**

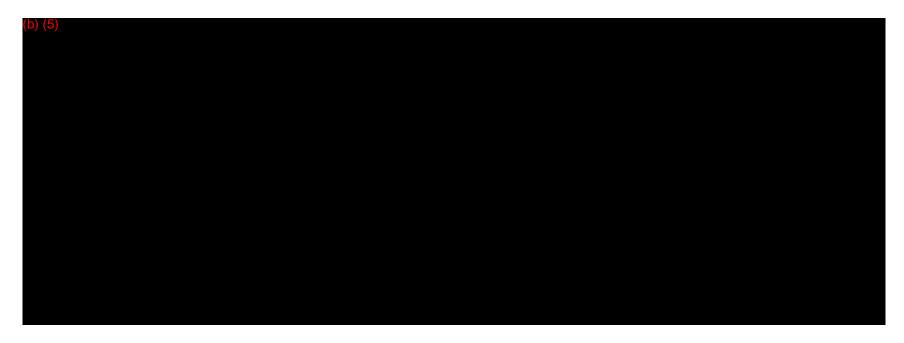


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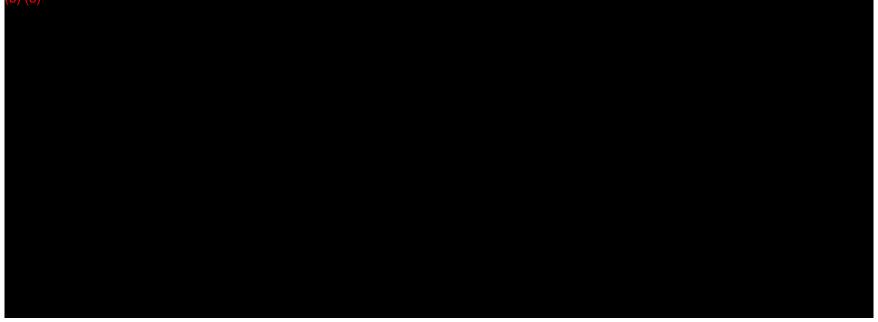


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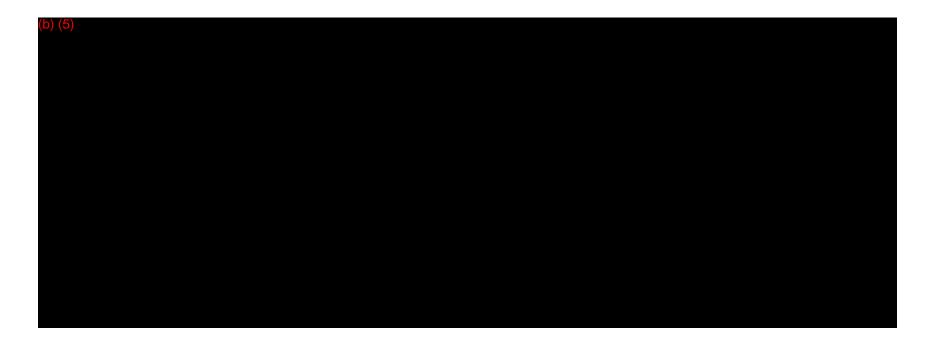














2.2	(b) (5)			
(b) (5)				
(b) (5)				





# **3 Remedy Based Reports**

3.1 (b) (5)

(b) (5)



### 3.2 Event Report

Per NIST SP 800-61 (rev 2), an **Event** is any observable occurrence in a system or network. An **Incident** is a violation or imminent threat of violation of computer security policies, acceptable use policies, or standard security practices.

#### Examples of **Events** include the following:

- User receives a phishing email and does not click on the link.
- While browsing the Internet, a user receives a pop-up from Microsoft support stating their system has a virus and to call a 1-800 number to help resolve the issue. The request is ignored and the pop-up is simply closed.
- User attempts to access a particular webpage, but is inadvertently redirected to another webpage. The user is prompted to click on a link for a Flash Player update. No clicking takes place.

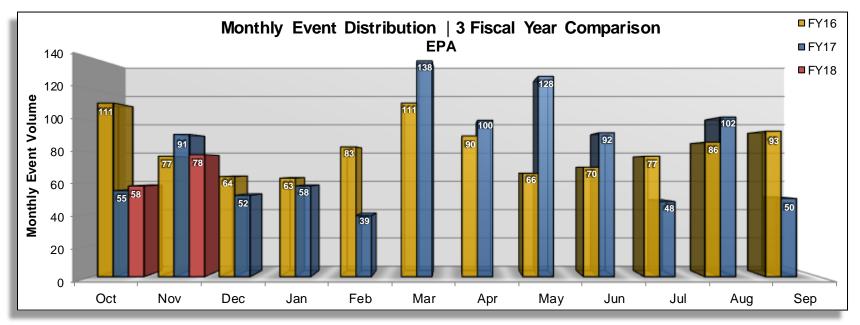
#### Examples of **Incidents** include the following:

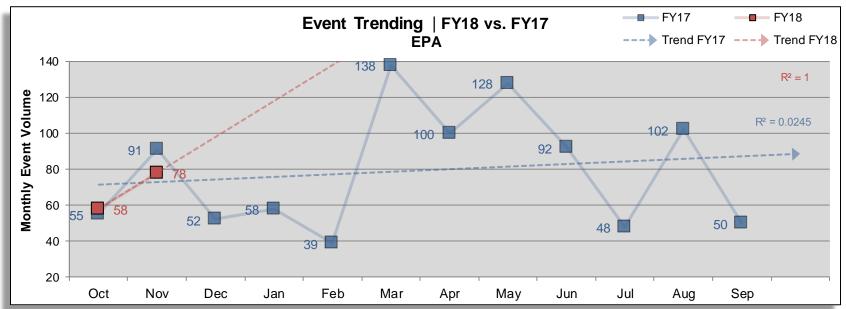
- User receives a phishing email & clicks on the link, which takes the user to a fake Microsoft website. LAN & password information is provided.
- While browsing the Internet, a user receives a pop-up from Microsoft support stating their system has a virus and to call a 1-800 number to help resolve the issue. The user calls the listed phone number and gets deceived into providing PII, CBI, or through a series of downloads allows the fake Microsoft technician unauthorized access to the system.
- User attempts to access a particular webpage, but is inadvertently redirected to another webpage. The user is prompted to click on a link for a Flash Player update. Upon clicking the link, a trojan horse is downloaded and a compromise takes place.

FY18	Corresponding Statistics for Computer Security Events		
Average (monthly):	The agency is incurring an average of <b>68.0</b> computer security related events/incidents <b>per month</b> in FY18.		
Average (daily):	The agency is incurring an average of <b>3.3</b> computer security related events/incidents <b>per business day</b> in FY18.		
High Month:	November is currently the most active month in FY18 with 78 events/incidents. Represents 57% of all events/incidents in FY18.		
Low Month:	h: October is currently the least active month in FY18 with 58 events/incidents. Represents 43% of all events/incidents in FY18.		
(b) (5)	(b) (5)		
Trend (slope):	Events/Incidents for FY18 (Oct 2017 through Sep 2018) have an <b>upward trend ▲</b> (i.e. slope of linear regression) of <b>0.0847.</b>		

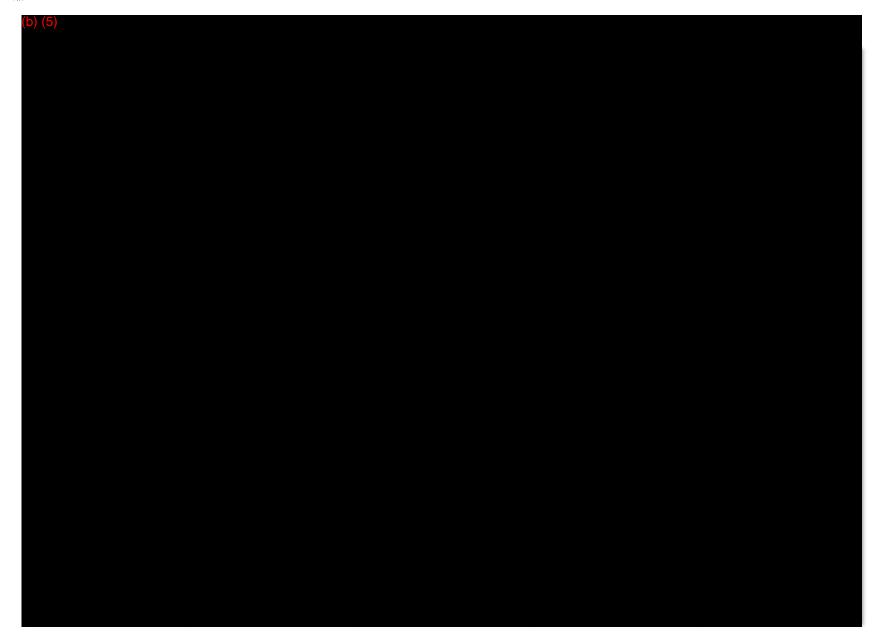
FY17	Corresponding Statistics for Computer Security Events		
Average (monthly): The agency incurred an average of 79.4 computer security related events/incidents per month in FY17.			
Average (daily):	The agency incurred an average of <b>3.8</b> computer security related events/incidents <b>per business day</b> in FY17.		
High Month: March was the most active month in FY17 with 138 events/incidents. Represented 14.5% of all events/incidents in FY17			
Low Month: February was the least active month in FY17 with 39 events/incidents. Represented 4.1% of all events/incidents.			
(b) (5) (b) (5)			
Trend (slope):	Events/Incidents for FY17 (Oct 2016 through Sep 2017) had an <b>upward trend</b> ▲ (i.e. slope of linear regression) of <b>0.0169</b> .		

Exhibit 15: Event Report | Volume and Trending











### 3.3 Event Category Report

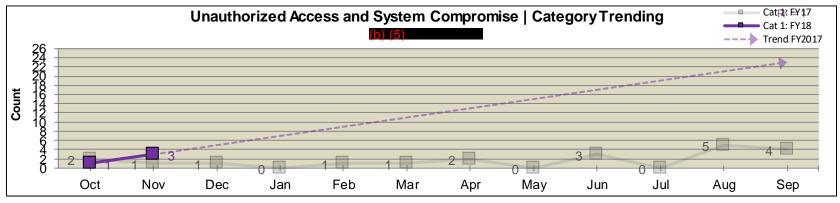
The purpose of this report is to show what attacks are occurring, the volume of each, and associated trending. Data for this report is derived from a monthly Remedy data extraction (i.e. Remedy Tier 2). Remedy Tier 2 adheres to the CSIRC Incident Categorization Matrix. Event data includes incidents unless otherwise noted. The report reflects exactly how the data is recorded in Remedy. Data is updated by the 5<sup>th</sup> business day of each month.

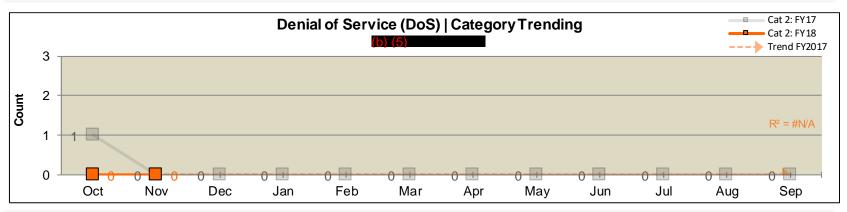
Cat 0	Exercise / Network Defense Testing   Default Criticality: Defined by exercise   US-CERT Reporting Requirement: n/a				
Cat 1	Unauthorized Access & System Compromise   Default Criticality: High   US-CERT Reporting Requirement: 1 hour				
Cat 2	Denial of Service (DoS)   Default Criticality: High   US-CERT Reporting Requirement: 2 hours				
Cat 3	Malicious Code   Default Criticality: Medium   US-CERT Reporting Requirement: 2 hours				
Cat 4	Improper Usage   Default Criticality: Medium   US-CERT Reporting Requirement: Weekly				
Cat 5	Unauthorized Scans / Probes / Attempted Access   Default Criticality: Medium   US-CERT Reporting Req: Monthly				
Cat 6	Investigation   Default Criticality: Medium   US-CERT Reporting Requirement: n/a				
Cat 7	Currently Unused				
Cat 8	Personally Identifiable Information (PII)   Default Criticality: Medium   US-CERT Reporting Requirement: 1 hour				

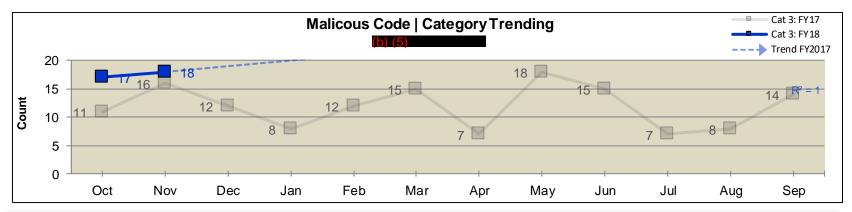


Exhibit 19: Event Category | Trending

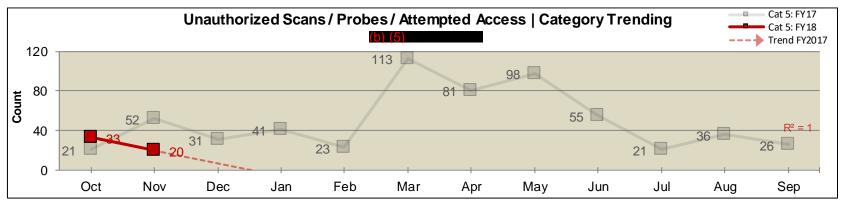




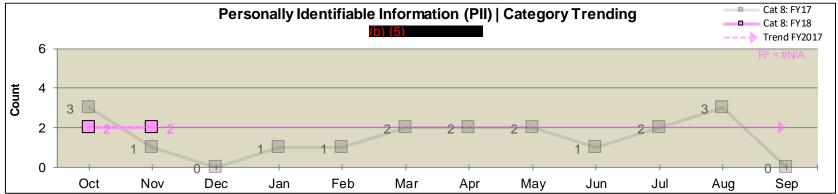














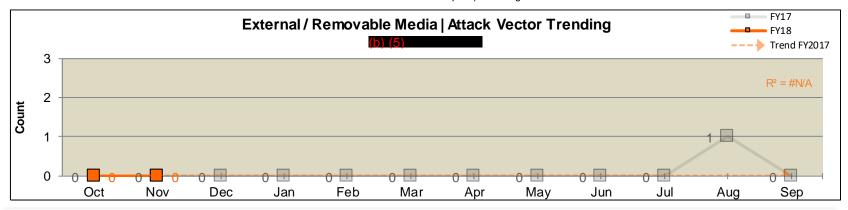
### 3.4 Attack Vector Report | NIST SP 800-61 (rev 2)

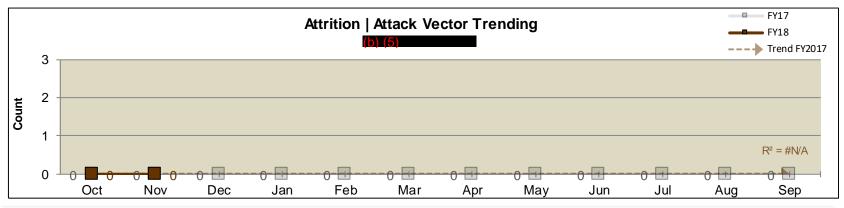
The purpose of this report is to show how attacks are occurring, the volume of each, trending, and annual comparisons. Data for this report is derived from a monthly Remedy data extraction (i.e. Remedy Tier 3). Remedy Tier 3 adheres to the official NIST SP 800-61 (rev 2) attack vectors. Event data includes incidents unless otherwise noted. The report reflects exactly how the data is recorded in Remedy. Data is updated by the 5<sup>th</sup> business day of each month.

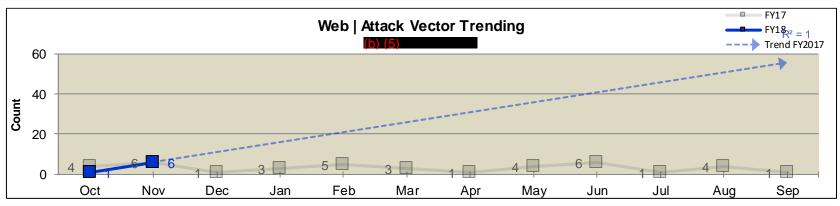
Attack Vector	NIST SP 800-61 (rev 2): Attack Vector Definitions			
External / Removable Media:	An attack executed from removable media or a peripheral device—for example, malicious code spreading onto a system from an infected USB flash drive.			
Attrition:	An attack that employs brute force methods to compromise, degrade, or destroy systems, networks, or services (e.g., a DDoS intended to impair or deny access to a service or application; a brute force attack against an authentication mechanism, such as passwords, CAPTCHAS, or digital signatures).			
Web:	An attack executed from a website or web-based application—for example, a cross-site scripting attack used to steal credentials or a redirect to a site that exploits a browser vulnerability and installs malware.			
Email:	An attack executed via an email message or attachment—for example, exploit code disguised as an attached document or a link to a malicious website in the body of an email message.			
Impersonation:	An attack involving replacement of something benign with something malicious—for example, spoofing, man in the middle attacks, rogue wireless access points, and SQL injection attacks all involve impersonation.			
Improper Usage:	Any incident resulting from violation of an organization's acceptable usage policies by an authorized user, excluding the above categories; (Ex) a user installs file sharing software, leading to the loss of data; or a user performs illegal activities on a system.			
Loss or Theft of Equipment:	The loss or theft of a computing device or media used by the organization, such as a laptop, smartphone, or authentication token.			
Other:	An attack that does not fit into any of the other categories.			

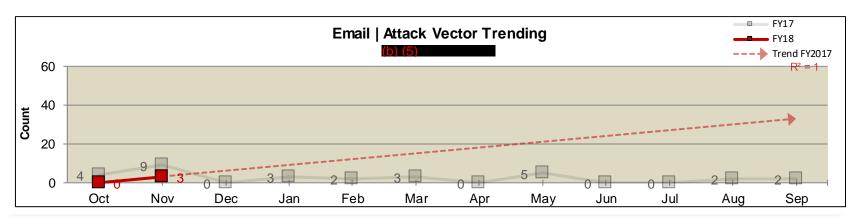


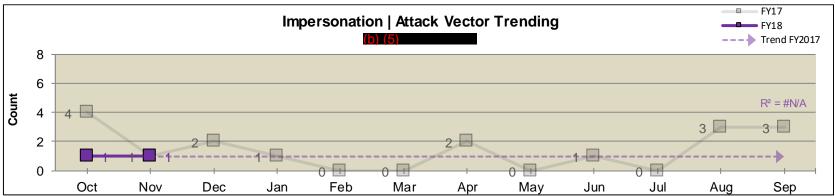
Exhibit 21: Attack Vector Report | Trending





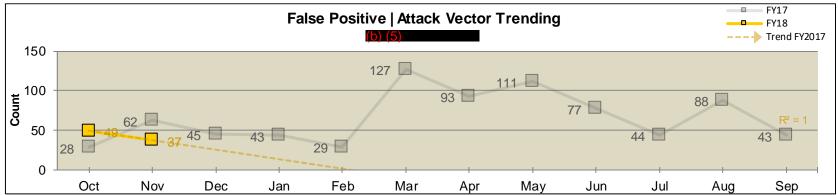


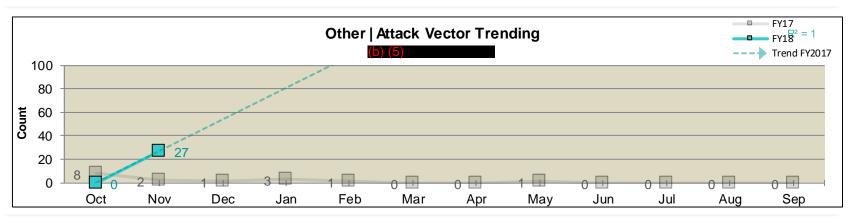














# 4 (b) (5) MTIPS Based Reports

4.1



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### 5 Executive Level Reports

### 5.1 Successful Incident Attack Report | PMC

The purpose of this report is the fulfillment of Section-E of the PMC (Presidential Management Council on Cybersecurity) reporting requirement. Metrics include total attack attempts, total successful attacks, and the percentage of successful attacks within a given time period. Total attack attempts are defined as detections observed from Symantec Endpoint Protection, FireEye and the Fortinet IPS system between a unique source IP address and destination address for each hour during the reporting time period (i.e. denominator). Total successful attacks are defined as Remedy logged incidents with definable malware (i.e. numerator). The percentage of successful attacks is defined as the 'Total Successful Attacks' divided by 'Total Attack Attempts'. This metric is reported on monthly and quarterly time periods.

CSIRC ► Events ► Incidents ► Successful Attacks	CSIRC ▶ Events ▶ Incidents ▶ Successful Attacks	
Time Frame: November FY18	Time Frame: Q1 FY18	
Total Attack Attempts: 128651	Total Attack Attempts: 237260	
Total Successful Attacks: 10	Total Successful Attacks: 14	
Percentage of Successful Attacks: 0.007%	Percentage of Successful Attacks: 0.006%	
(b) (5)	(b) (5)	



6 **(b) (5)** 

6.1 **(b) (5)**